

Digi International 11001 Bren Road East Minuetonka, MN 55343 952-912-3444 tel 952-912-4991 central fax

Monday, October 8, 2007

To Whom It May Concern:

Digi International would like to apply for Modular FCC approval. This letter is our application for such according to FCC public notice DA 00-1407.

XBEE PRO XSC Modular Transmitter Requirements (MCQ-XBEEXSC)

Modular Transmitter Requirements	Manufacturer Clarification
A – In order to be considered a transmitter module, the device must be a complete RF	The transmitter is complete with its own reference oscillator, antenna.
transmitter, i.e., it must have its own reference oscillator (e.g., VCO), antenna, etc. The only connectors to the module, if any, may be the power supply and	The only connectors provided are the DC supply, Data, and RF ports.
modulation/data inputs. B - Compliance with FCC RF Exposure requirements may, in some instances, limit the output power of a module and/or the final applications in which the approved module may be employed.	The radio complies with MPE per 2.1091 for use with mobile or fixed base stations.
C – While the applicant for a device into which an authorized module is installed is not required to obtain a new authorization for the module, this does not preclude the possibility that some other form of authorization or testing may be required for the device (e.g., a WLAN into which an authorized module is installed must still be authorized as a PC peripheral, subject to the appropriate equipment authorization).	The equipment complies with FCC Part 15, Subpart B, Class B – Unintentional radiators.
D – In the case of a modular transceiver, the modular approval policy only applies to the transmitter portion of such devices. Pursuant to Section 15.101(b), the receiver portion will either be subject to verification, or it will not be subject to any authorization requirements (unless it is a Scanning Receiver, in which case it is also subject to Certification, pursuant to Section	The receiver operates in the 2.400-2.485 GHz band and complies with FCC Part 15, Subpart B – Radio Receivers.
E – The holder of the grant of equipment authorization (Grantee) of the module is responsible for the compliance of the module in its final configuration, provided	End users must conform with the following instructions stated in the users' manual: - Labeling requirement for equipment
that the OEM, integrator, and/or end user	using this modular transmitter.



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has complied with all of the instructions	The second section for
provided by the Grantee which indicate	- RF Exposure information for
installation and/or operating conditions	compliance with FCC Rules 2.1091 or
necessary for compliance.	2.1093 are specified in the user manual
	for OEM, integrator, and/or end user.
1. The modular transmitter must have its	The modular transmitter has its own RF
own RF shielding. This is intended to	shielding.
ensure that the module does not have to	
rely upon the shielding provided by the	
device into which it is installed in order for	
all modular transmitter emissions to	1
comply with Part 15 limits Such	
coupling may result in non-compliant	
operation. 2. The modular transmitter must have	The modular transmitter has buffered
2. The modular transmitter must have	modulation/data inputs.
buffered modulation/data inputs (if such	,
inputs are provided) to ensure that the	1
module will comply with Part 15	
requirements under conditions of excessive	
data rates or over-modulation.	The modular transmitter has its own power
3. The modular transmitter must have its	supply regulation.
own power supply regulation. This is	Supply regulation.
intended to ensure that the module will	
comply with Part 15 requirements	
regardless of the design of the power	
supplying circuitry in the device into which	
the module is installed.	The state of the Division 15 203 and
4. The modular transmitter must comply	The radio complies with Rules 15.203 and
with the antenna requirements of Section	15.204c. The radio will have a unique
15,203 and 15,204c. The antenna must	autenna coupler (IPX or U.FL) for all
either be permanently attached or employ a	approved antennas.
"unique" antenna coupler (at all	
connections between the module and the	
antenna, including the cable). Any antenna	\
used with the module must be approved	
with the module; either at the time of initial	
authorization or through a Class II	
permissive change. The "professional	
installation" provision of Section 15.203	·
may not be applied to modules.	
5. The modular transmitter must be tested	The modular transmitter was tested in a
in a stand-alone configuration, i.e., the	stand-alone configuration.
module must not be inside another device	\
during testing. This is intended to	
demonstrate that the module is capable of	
complying with Part 15 emission limits	
complying with rate 15 chinoston name	
regardless of the device into which it is	
eventually installed	The modular transmitter is labeled with its
6. The modular transmitter must be labeled	The incommendation



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Modular Transmitter Requirements	Manufacturer Clarification
with its own FCC ID number, and, if the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module	own FCC ID number. The label is fixed on the shield or printed on the PCB.
7. The modular transmitter must comply with any specific rule or operating requirements applicable to the transmitter and the manufacturer must provide adequate instructions along with the module to explain any such requirements.	The user manual for the XBBE contains adequate instructions relating to the usage, approved antennas, and power supply requirements of the modular transmitter.
8. The modular transmitter must comply with any applicable RF exposure requirements.	The modular transmitter was tested to applicable RF exposure requirements.

Sincerely,

Paul Dahl Hardware Manager